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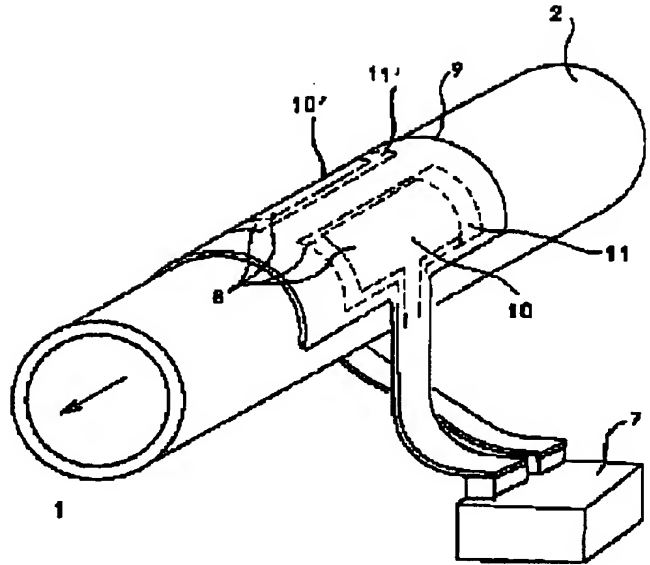
APPLICATION DATE : 11-09-91
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APPLICANT : HITACHI INSTR ENG CO LTD;

INVENTOR : FUJIMOTO SOUZOU;

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TITLE : ELECTROSTATIC CAPACITY TYPE
ELECTROMAGNETIC FLOWMETER



ABSTRACT : PURPOSE: To enable a planar electrode which is superb in productivity to be formed without reducing strength of a measuring pipe in an electrostatic capacity type electromagnetic flowmeter.

CONSTITUTION: A flexible body 9 enclosing a plurality of mutually insulated planar conductors is wound at an outside of a measuring pipe 2 which consists of a dielectric material such as ceramic which leads a fluid 1 to be measured and is fixed by adhesion etc. An electromotive force which is generated within the fluid due to electrostatic coupling between at least a pair of planar electrodes 10, 10' within the flexible body and the fluid to be measured is taken out of the pipe. Also, the flexible body is constituted of a flexible printed-circuit board, thus enabling a homogeneous measuring pipe to be used without requiring formation of an electrode within a wall coating and realizing an electromagnetic flowmeter which is strong against an outer force and a thermal shock easily.

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